

- 1) Find the oxidation number of carbon in CO and CO₂



$$C + -2 = 0$$

$$C = 2$$



$$C + 2 X -2 = 0$$

$$C = +4$$

- 2) Find the oxidation number of Mn²⁺

$$\text{Mn} = +2$$

- 3) Find the oxidation number of the sulfur in SO₂ and SO₄²⁻



$$S + 2 X -2 = 0$$

$$S = 4$$



$$S + 4 X -2 = -2$$

$$S = +6$$

- 4) Find the oxidation number of Cl in KClO₃ and Cl₂



$$+1 + \text{Cl} + 3 X -2 = 0$$

$$\text{Cl} = +5$$



$$\text{Cl} = 0 \text{ (elemental form)}$$